



**State Water Resources Control Board  
 Temporary Urgency Change Order (2/4/2021)  
 Russian River Hydrologic Report  
 December 10, 2021 - December 16, 2021**

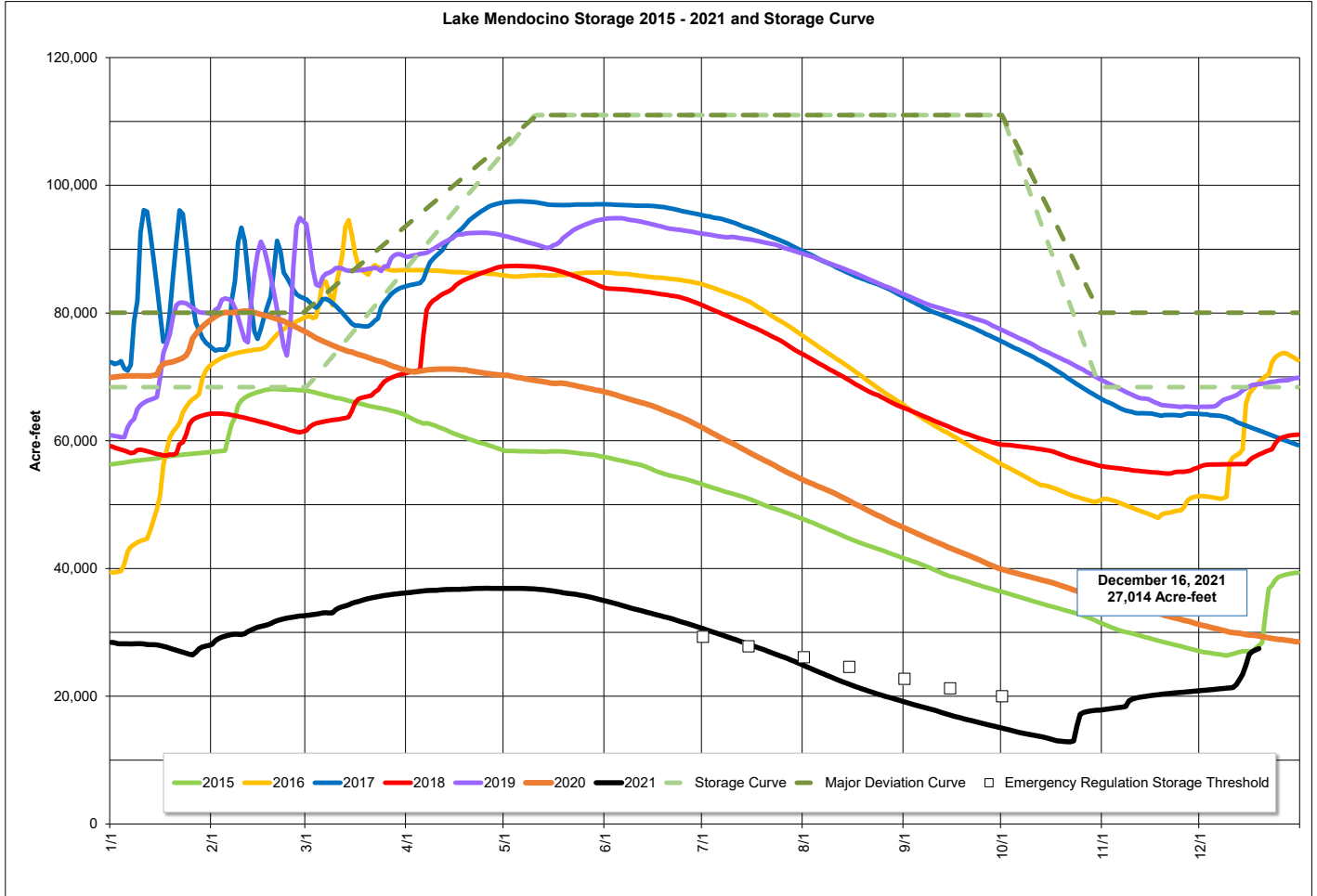
Prepared as a requirement of the Order approving Sonoma Water's Petition for Temporary Urgency Change in Permits 12947A, 12949, 12950, and 16596 (Applications 12919A, 15736, 15737, and 19351).

**Instream Flow Requirements as of December 16, 2021**

Basis	Reach	Instantaneous (cfs)	5-day Average (cfs)
Modified Per Order: Critical Condition	Upper Russian River	<b>25</b>	-
Modified Per Order: Critical Condition	Dry Creek	<b>75</b>	-
Modified Per Order: Critical Condition	Lower Russian River	<b>35</b>	-

Upper Russian River, Dry Creek, Lower Russian River based on criteria as established in the Order issued 12/11/2021.

**Lake Mendocino**

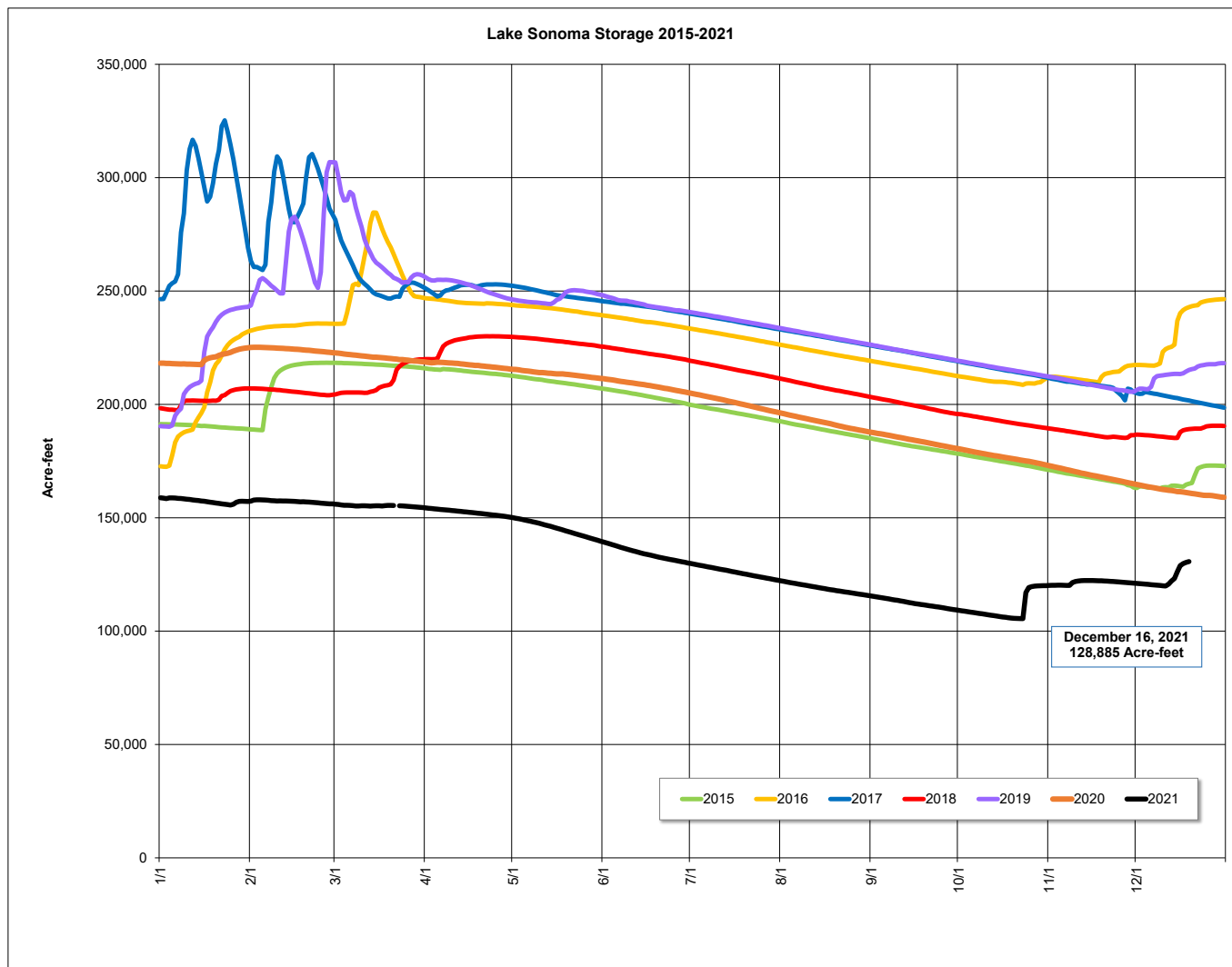


Storage (acre-feet)	December 16, 2021	<b>27,014</b>	
Change in Storage (acre-feet)	Last 30 days	<b>6,451</b>	<b>215</b>
	Last 7 days	<b>5,265</b>	<b>752</b>
Daily Inflow (cfs)	Last 7 days	Min	<b>36</b>
		Max	<b>884</b>
		Mean	<b>402</b>
Release (cfs)	Last 7 days	Min	<b>14</b>
		Max	<b>29</b>
		Mean	<b>19</b>

Lake Sonoma



Nathan Baskett, March 3, 2021



Storage (acre-feet)	December 16, 2021	<b>128,885</b>	
Change in Storage (acre-feet)	Last 30 days	Total	Average Daily Rate
		<b>6,564</b>	<b>219</b>
Daily Inflow (cfs)	Last 7 days	Min	<b>10</b>
		Max	<b>1,589</b>
Release (cfs)	Last 7 days	Mean	<b>705</b>
		Min	<b>74</b>
		Max	<b>77</b>
		Mean	<b>75</b>

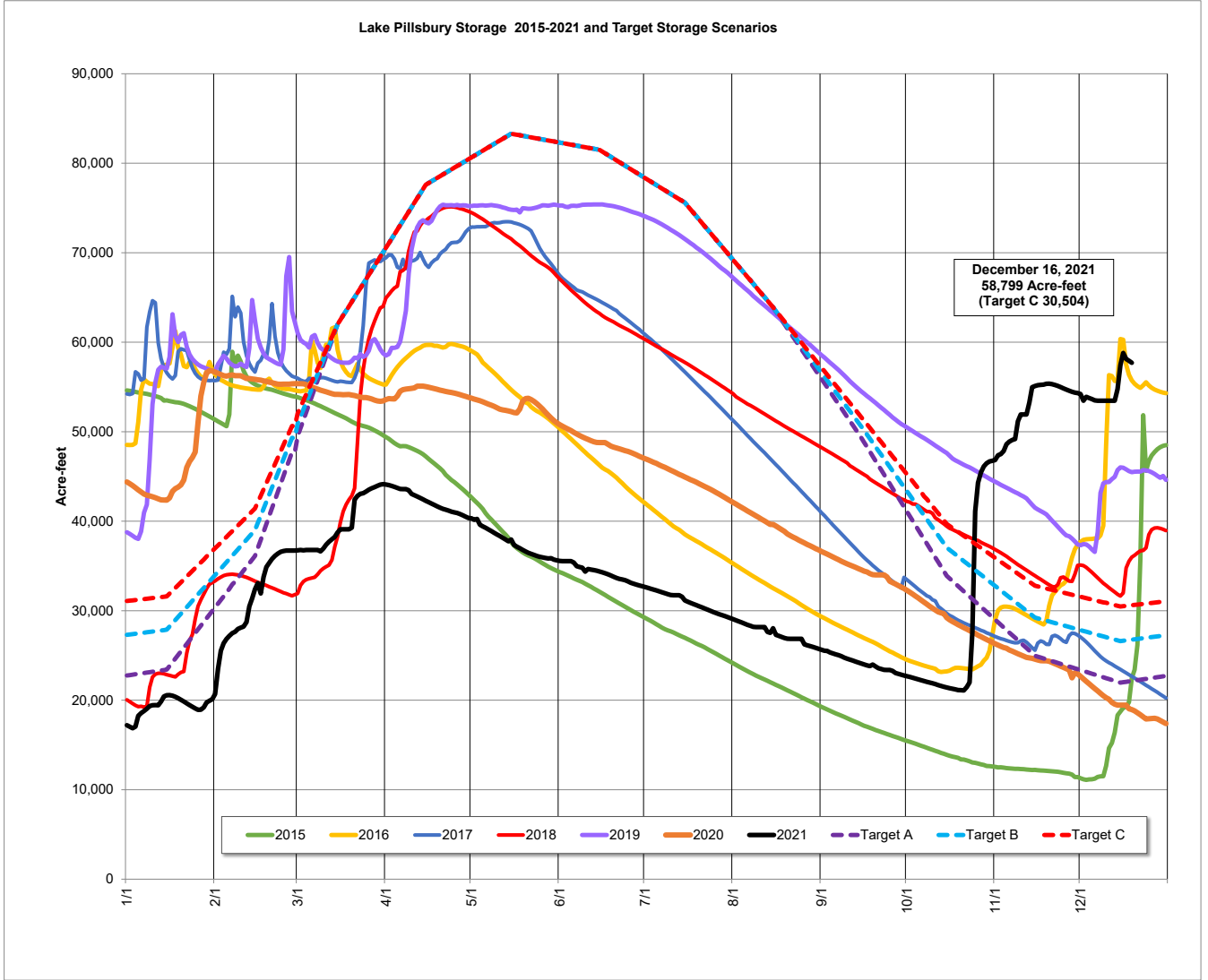
### Potter Valley Project

PVP Diversion (cfs)	December 16, 2021	45
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### Lake Pillsbury

Parameter	Date Range	Cumulative	Daily Average
Inflow* (acre-feet)	October 1, 2021 - December 16, 2021	64,102	843
	Last 7 days	12,773	1,825

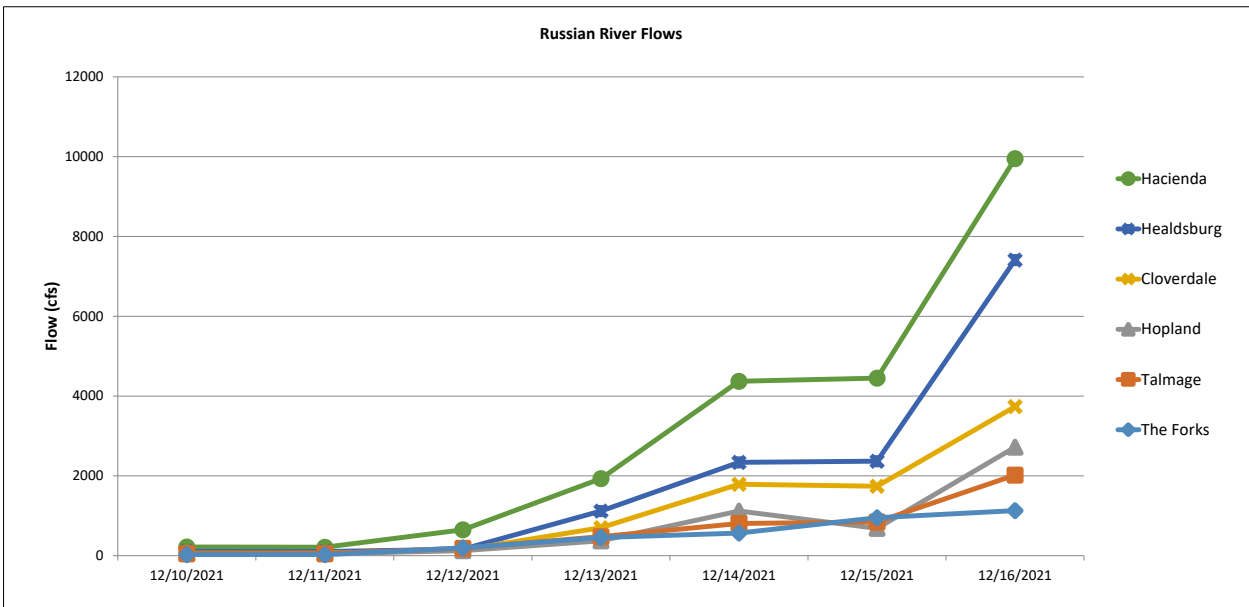
\*Inflow calculation based on criteria established in D1610



### Russian River Flows (December 10 - December 17, 2021)

Gage	24-hr Average Flow (cfs)						
	Dec 10, 2021	Dec 11, 2021	Dec 12, 2021	Dec 13, 2021	Dec 14, 2021	Dec 15, 2021	Dec 16, 2021
The Forks*	25	25	195	455	567	950	1129
Talmage USGS 11462080	53	52	186	479	808	845	2020
Hopland USGS 11462500	46	45	125	373	1120	685	2720
Cloverdale USGS 11463000	64	64	142	703	1789	1741	3735
Healdsburg USGS 11464000	109	104	161	1120	2340	2370	7410
Hacienda USGS 11467000	217	212	649	1930	4370	4450	9950

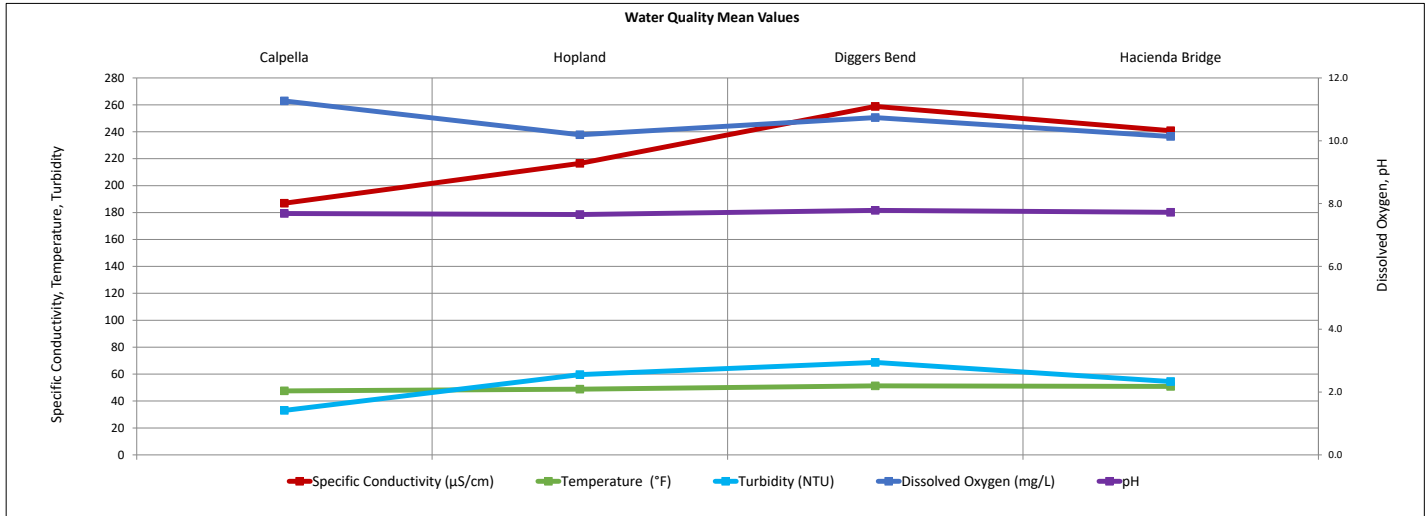
\*West Fork (USGS 11461000) + East Fork (Coyote Valley Dam Release)



**Russian River Water Quality Sondes (December 10 - December 16, 2021)**  
**Provisional Data Subject to Revision**

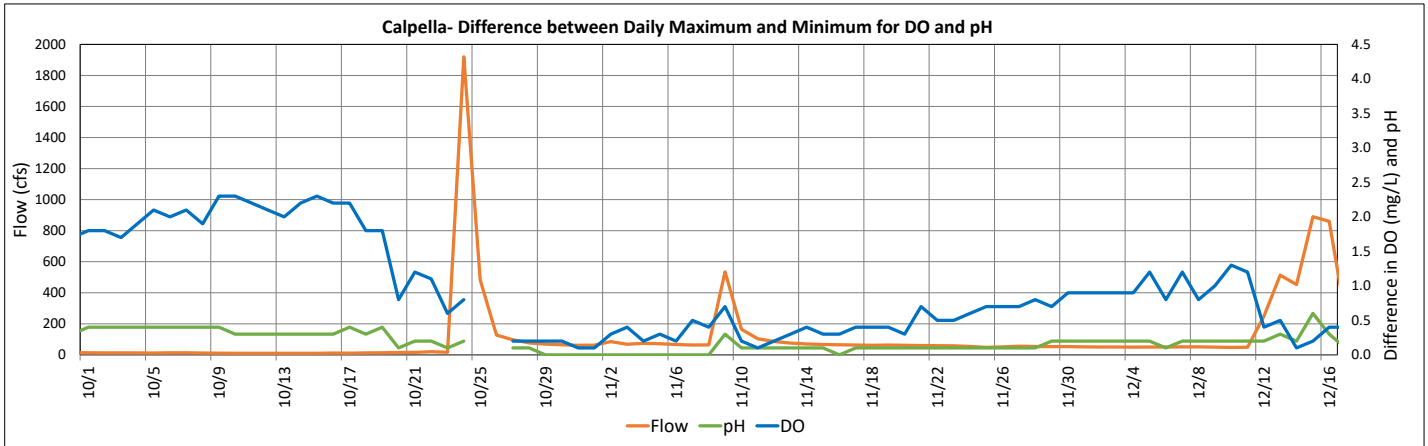
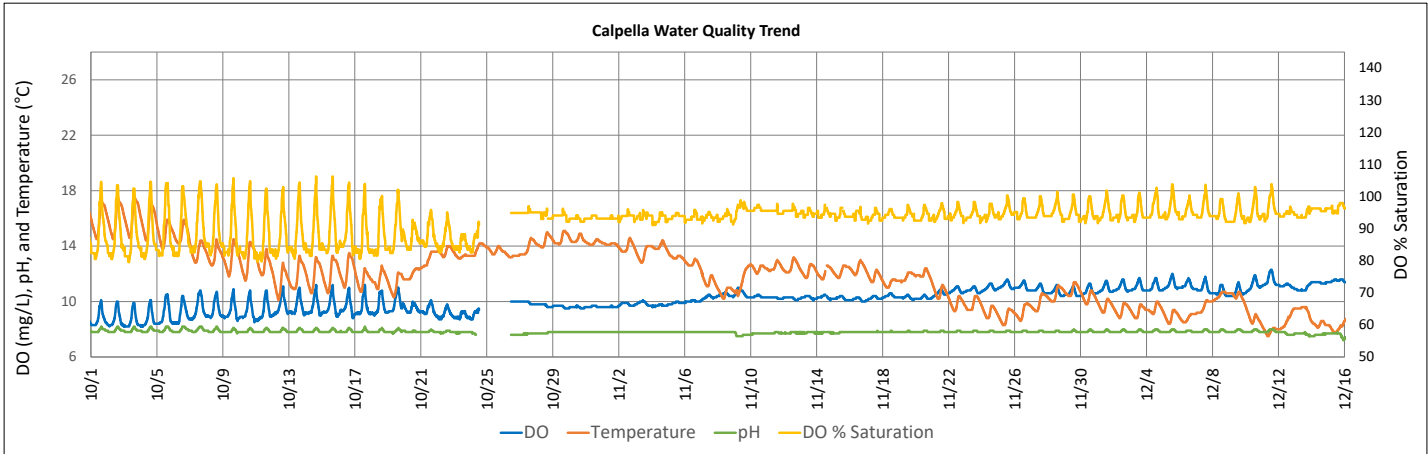
Parameter		Calpella	East Fork Below Lake Mendocino	Hopland	Cloverdale*	Jimtown*	Diggers Bend	River Diversion System at Mirabel*	Hacienda Bridge	Johnsons Beach*
		USGS 11461500	SCWA	USGS 11462500	USGS 11463200	USGS 11463682	USGS 11463980	SCWA	USGS 11467000	SCWA
Temperature (°F)	Min	45.5		46.6			47.1		48.6	
	Max	49.5		51.8			54.3		53.8	
	Mean	47.5		48.8			51.3		50.9	
Specific Conductivity (µS/cm)	Min	50		88			78		139	
	Max	232		305			365		328	
	Mean	187		217			259		241	
Dissolved Oxygen (mg/L)	Min	10.6		9.2			9.6		9.3	
	Max	12.3		10.9			13.5		11.9	
	Mean	11.3		10.2			10.7		10.1	
Dissolved Oxygen (% Saturation)	Min	87		78			81		80	
	Max	106		99			125		110	
	Mean	95		88			95		90	
pH	Min	7.2		7.4			7.5		7.4	
	Max	8.0		7.8			8.3		8.2	
	Mean	7.7		7.7			7.8		7.7	
Turbidity (NTU)	Min	1.9		2.7			0.7		2.3	
	Max	266.0		426.0			530.0		329.0	
	Mean	33.0		59.6			68.7		54.5	

\*Station operated seasonally



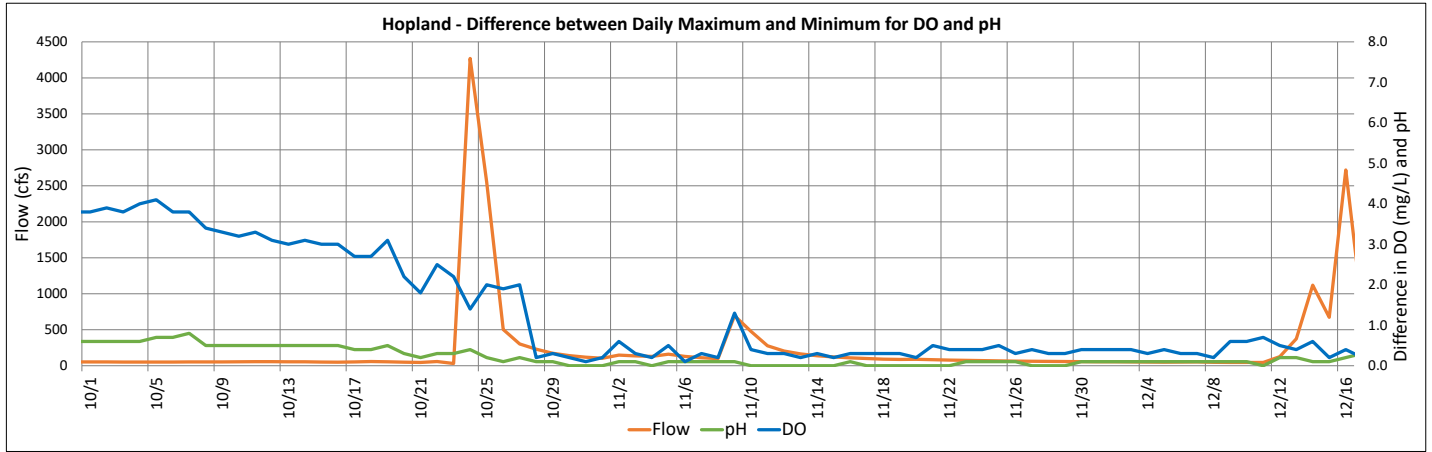
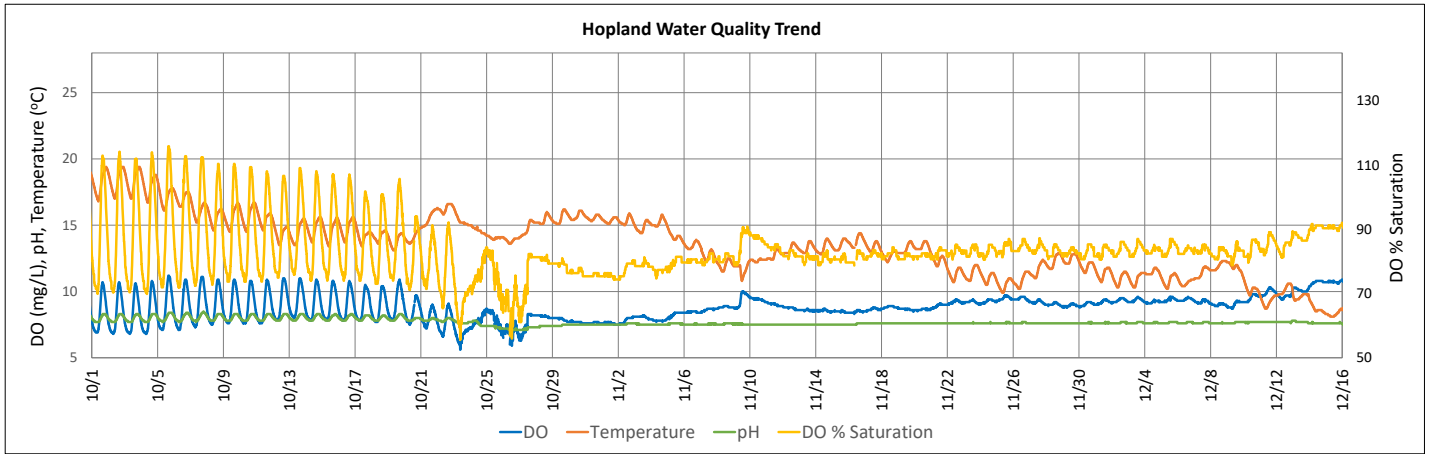
**Russian River Water Quality Sonde Data (October 1 - December 16, 2021)**  
**Provisional Data Subject to Revision**

**Calpella (East Fork Russian River)**

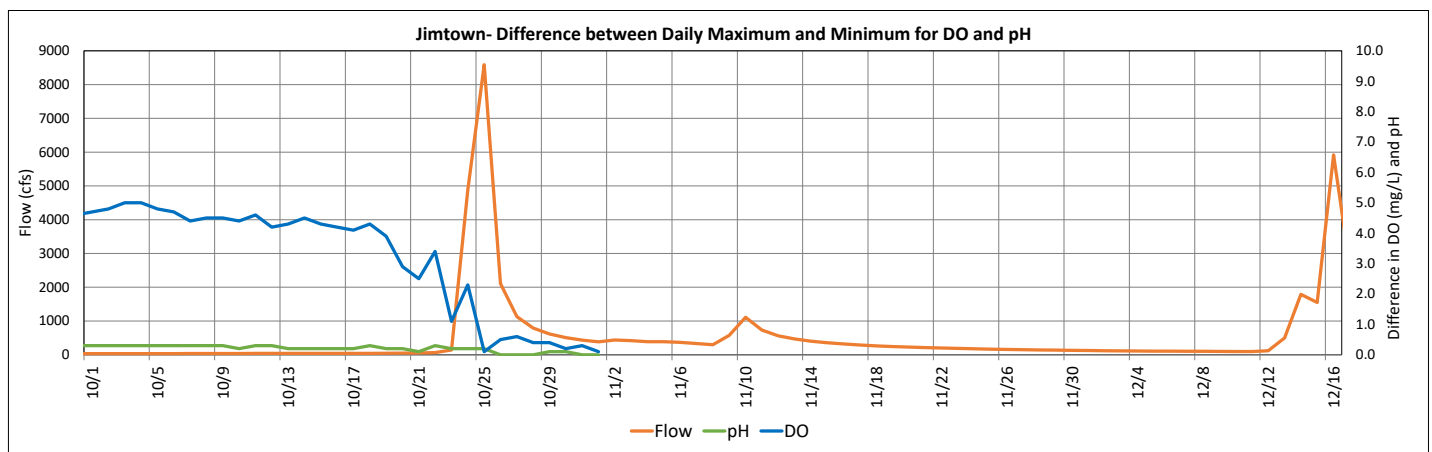
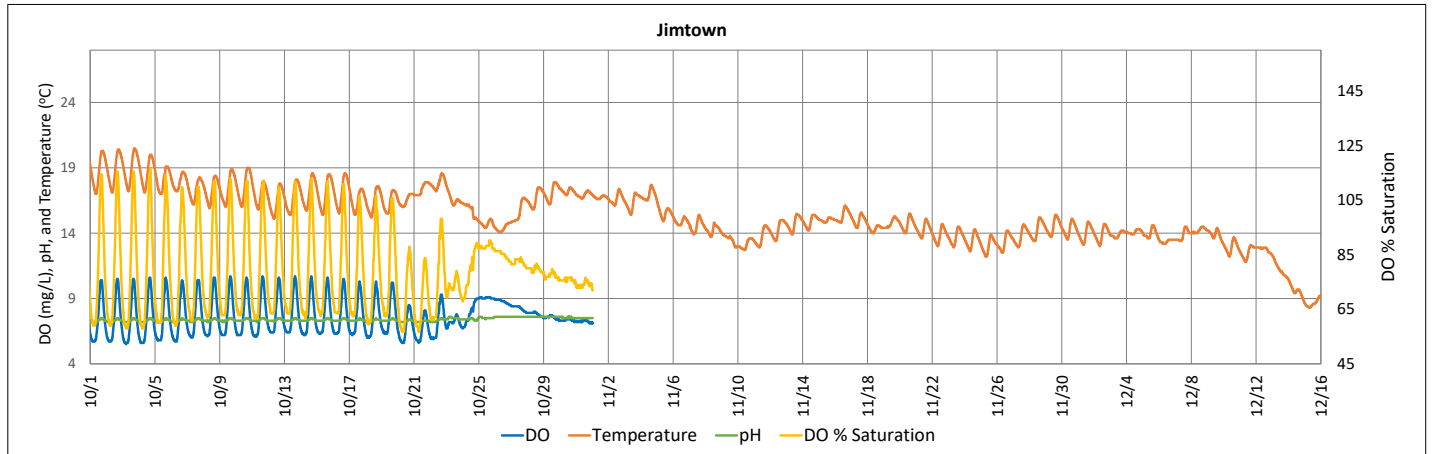


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**Hopland**

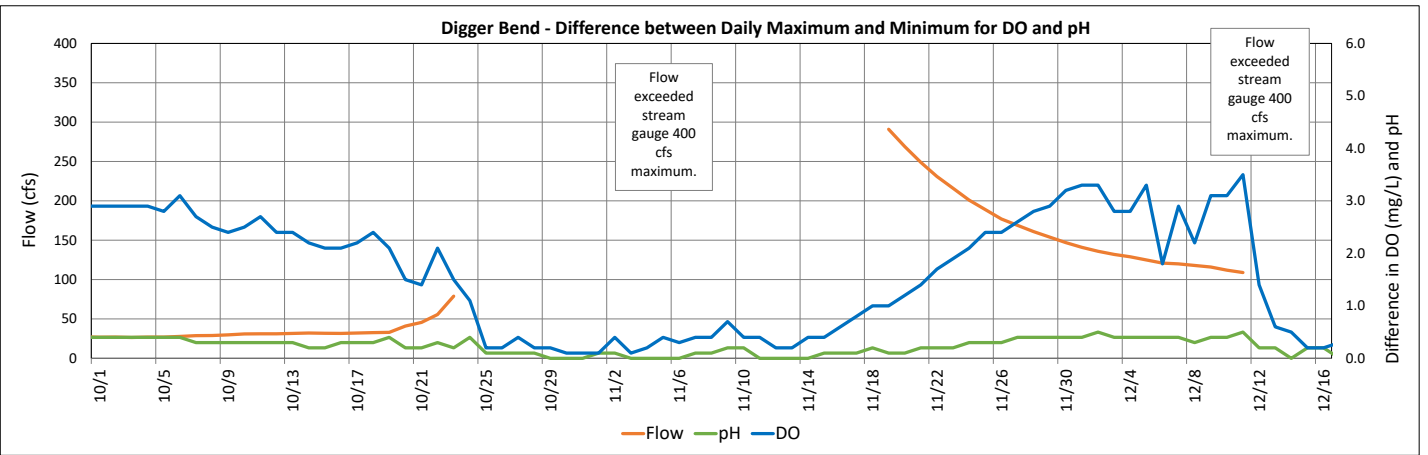
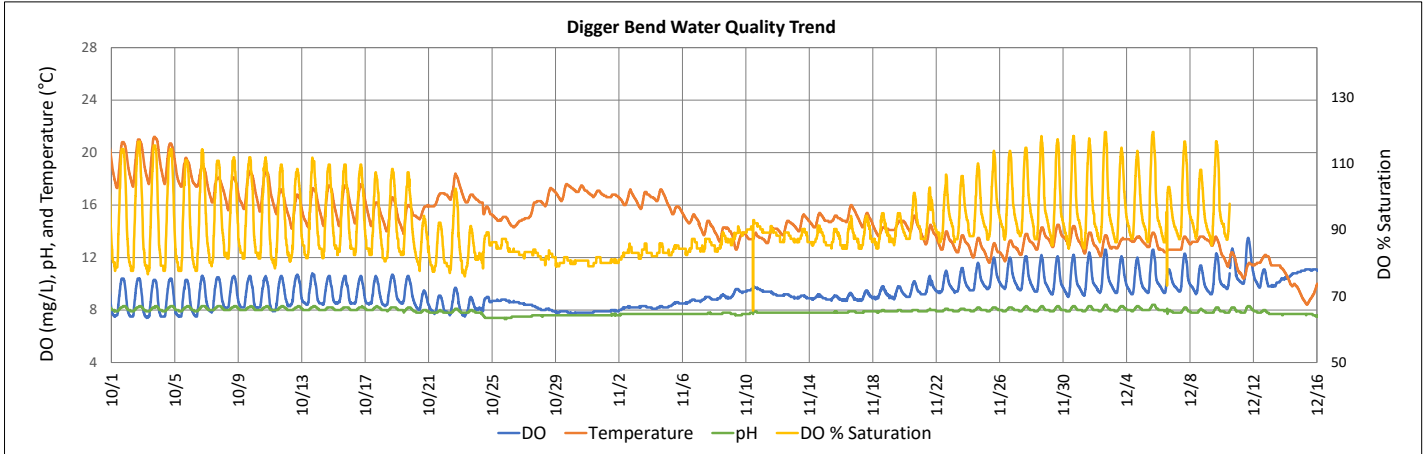


**Jimtown Water Quality**

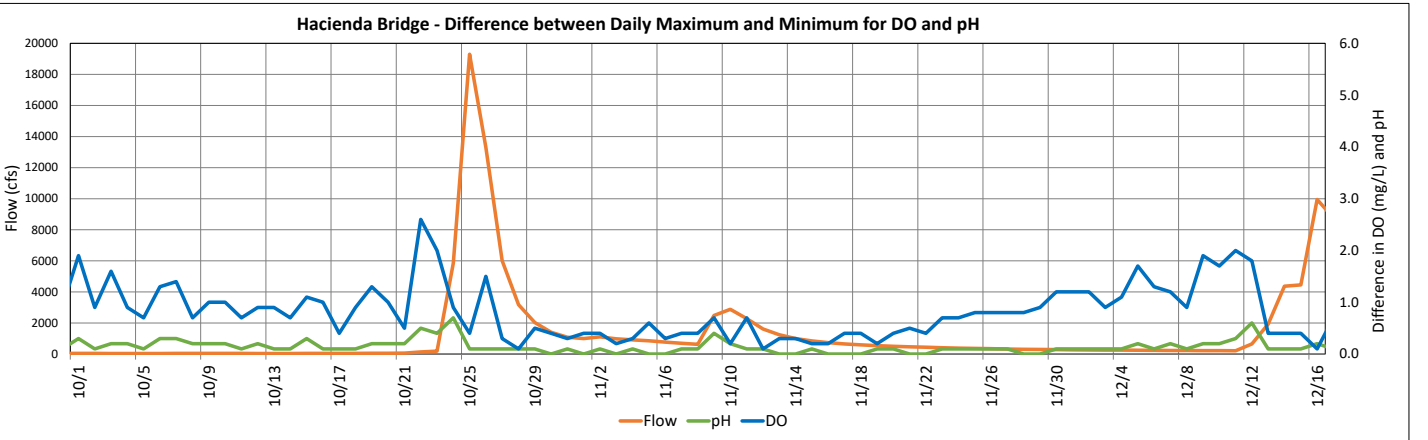
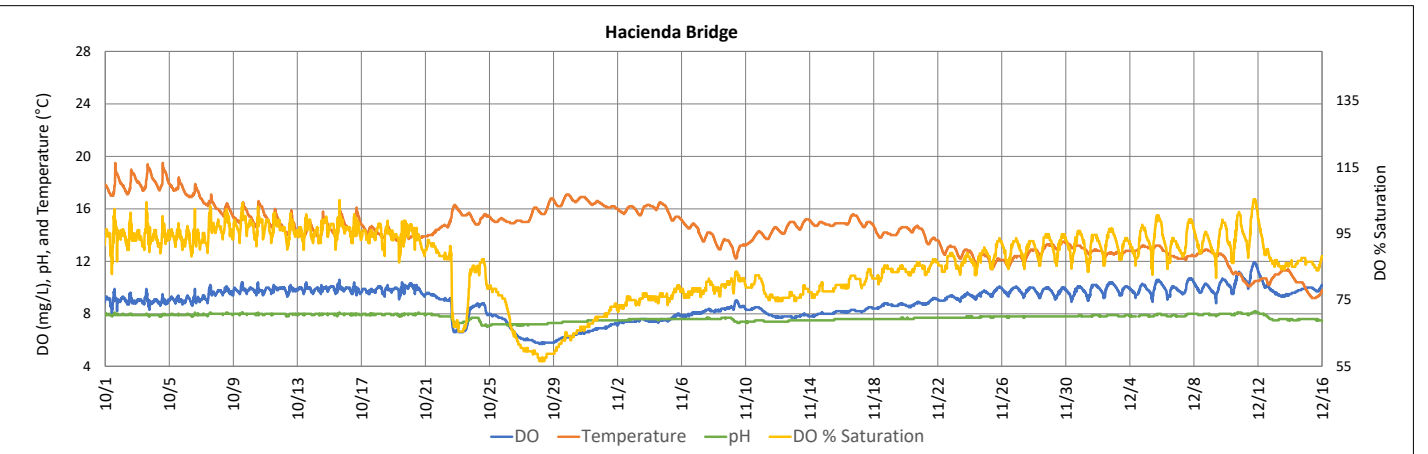


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**Digger Bend**

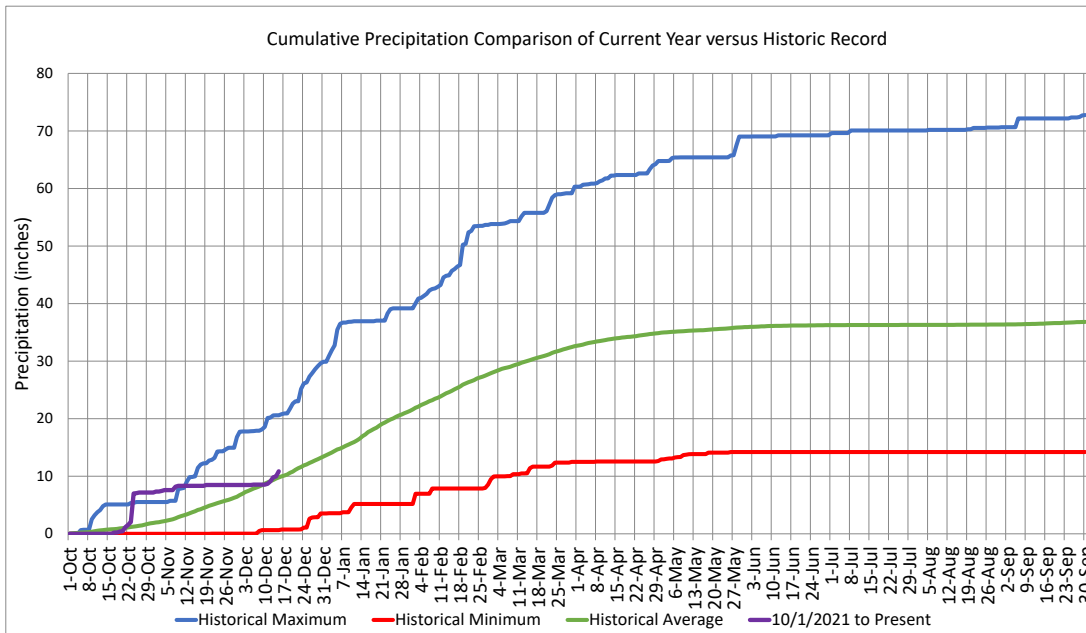


**Hacienda Bridge**



### Precipitation

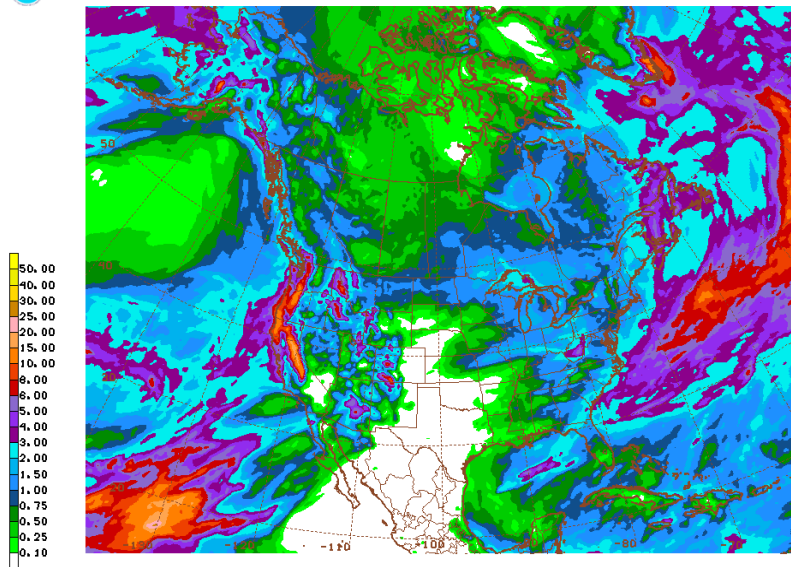
Ukiah Municipal Airport (WBAN: 72590523275 (KUKI))	
Date Range	Cumulative (inches)
Oct 1, 2021 - Dec 16, 2021	<b>10.9</b>
Last 7 Days*	<b>2.35</b>



### Global Forecast System Model 16-day Cumulative Precipitation Forecast



BFS 12/20/21 12UTC 384HR FCST VALID HED 01/05/22 12UTC NOAA/NWS/NCEP



BFS HED 220105/1200V384 384HR ACCUMULATED PRECIP (IN)

Date Range	Forecasted Cumulative (inches)
Dec 20 - Jan 5, 2022	<b>5.1</b>